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Sequence Listing was accepted.
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Reviewer: Anne Corrigan
Timestamp: [year=2008; month=4; day=23; hr=11; min=58; sec=56; ms=319;]
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Validated By CRFValidator v 1.0.3

Application No: 10782375 Version No: 1.0

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Huynh, Duong P.

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Methods of Use

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His Ser Val Gly Trp His Arg Gly His Phe Gly Gln His Gly Leu Gly
25 30 35

agg gga gca gtt aga acc cgg ctt tgg atc agg ccc gga cac gcg acg 436
Arg Gly Ala Val Arg Thr Arg Leu Trp Ile Arg Pro Gly His Ala Thr
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gcc gcc ttc tcc tcc ccc ggc cgt tgt ggt tgt ggt tgt ccc tgc cac      628
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ctc ctt aca gcc gag ccg ccg aca caa gat ggc gga cgc ttg agc ctg      676
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cgg gcc gcg cct act tat gaa tca tgc ata aag ttc cct act cgg ttg      772
Arg Ala Ala Pro Thr Tyr Glu Ser Cys Ile Lys Phe Pro Thr Arg Leu
            155                 160                 165

cga ttc att cgg tta gaa gtg gaa cag cac cac ctg gtg gac att gtg      820
Arg Phe Ile Arg Leu Glu Val Glu Gln His His Leu Val Asp Ile Val
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gca gta aca acg aaa aca ggt aaa aca gag gcc acg cct cat gga atg      868
Ala Val Thr Thr Lys Thr Gly Lys Thr Glu Ala Thr Pro His Gly Met
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cga cta atg aat gaa ttg ttg cag cca ggc tgt caa gga agc gaa gaa      916
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200                 205                 210                 215

aaa ccg tta agg cca tgc ttc ctg att ata agt tat gca tgaagttgag       965
Lys Pro Leu Arg Pro Cys Phe Leu Ile Ile Ser Tyr Ala
                220                 225

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ctgccctgcc cctcatttac ataaatatta tactagcatt taccatctca cttctaggaa   1385
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Ile Arg Pro Gly His Ala Thr Phe Leu Gly Gln Arg Arg Ala Gly His
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Gln Cys Arg Phe Pro Gly Ser Arg Arg Arg Gln Leu Leu Lys Glu Pro
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Lys Pro Ser Pro Ala Ala Pro Ser Ser Phe Ser Ser Ser Pro Pro Pro
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Gly Pro Pro Arg Ile Ala Ala Ala Ala Phe Ser Ser Pro Gly Arg Cys
            100                 105                 110
Gly Cys Gly Cys Pro Cys His Leu Leu Thr Ala Glu Pro Pro Thr Gln
        115                 120                 125
Asp Gly Gly Arg Leu Ser Leu Gly Pro Glu Gln Asn Leu Gly Pro His
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Pro Gln Lys Pro Gly Cys Lys Arg Ala Ala Pro Thr Tyr Glu Ser Cys
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Ile Lys Phe Pro Thr Arg Leu Arg Phe Ile Arg Leu Glu Val Glu Gln
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His His Leu Val Asp Ile Val Ala Val Thr Thr Lys Thr Gly Lys Thr
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Glu Ala Thr Pro His Gly Met Arg Leu Met Asn Glu Leu Leu Gln Pro
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aagccaagcc cggccgcacc ctcctccttc tcctcctccc cgccgcctgg gccgcctaga     300
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cttgggcccc acccccagaa acccggatgc aagcgggccg cgcctactta tgaatcatgc     480
ataaagttcc ctactcggtt gcgattcatt cggttagaag tggaacagca ccacctggtg     540
gacattgtgg cagtaacaac gaaaacaggt aaaacagagg ccacgcctca tggaatgcga     600
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ggccccaccc ccagaaaccc ggatgcaagc gggccgcgcc tacttatgaa tcatgcataa 240
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gaaagcagat gttaaaacat ggaagccaca cacccccatt catgaataat gatgatcttg 540
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gctgctgcag tagctcaacc tggaaactca gagaggtcaa gaaaggttcc acccaattta 780
tgaattatgc ataaggcgaa gaaacaccca agactgccct gcccctcatt tacataaata 840
ttatactagc atttaccatc tcacttctag gaatactagt atatcgctca cacctcatat 900
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gaagactgct catttgtcta ctgcctcatt cctggaaatt gcactggaac tgtctgatta 180
agaaaaacag aataattctg aaagaaagaa aacaaagaaa aacatactcc agaattccta 240
atagaacact tcacctgaac ctaaa atg gtg agc gag agt cac cat gag gcc 292
Met Val Ser Glu Ser His His Glu Ala
1 5

ctg gca gcc ccg cct gtc acc act gtc gcg act gtt ctg cca agc aat 340
Leu Ala Ala Pro Pro Val Thr Thr Val Ala Thr Val Leu Pro Ser Asn
10 15 20 25

gcc aca gag cca gcc agt cct gga gaa gga aag gaa gat gca ttt tct 388
Ala Thr Glu Pro Ala Ser Pro Gly Glu Gly Lys Glu Asp Ala Phe Ser
30 35 40

aag ctg aag gag aag ttt atg aat gag ttg cat aaa att cca ttg cca 436
Lys Leu Lys Glu Lys Phe Met Asn Glu Leu His Lys Ile Pro Leu Pro
45 50 55

ccg tgg gcc tta att gca ata gcc ata gtc gca gtc ctt tta gtc ctg 484
Pro Trp Ala Leu Ile Ala Ile Ala Ile Val Ala Val Leu Leu Val Leu
60 65 70

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acc tgc tgc ttt tgt atc tgt aag aaa tgt ttg ttc aaa aag aaa aac      532
Thr Cys Cys Phe Cys Ile Cys Lys Lys Cys Leu Phe Lys Lys Lys Asn
     75                  80                  85

aag aag aag gga aag gaa aaa gga ggg aag aat gcc att aac atg aaa      580
Lys Lys Lys Gly Lys Glu Lys Gly Gly Lys Asn Ala Ile Asn Met Lys
 90                  95                 100                 105

gat gta aaa gac tta ggg aag acg atg aaa gat cag gcc ctc aag gat      628
Asp Val Lys Asp Leu Gly Lys Thr Met Lys Asp Gln Ala Leu Lys Asp
                110                 115                 120

gat gat gct gaa act gga ttg aca gat gga gaa gaa aaa gaa gaa ccc      676
Asp Asp Ala Glu Thr Gly Leu Thr Asp Gly Glu Glu Lys Glu Glu Pro
            125                 130                 135

aaa gaa gag gag aaa ctg gga aaa ctt cag tat tca ctg gat tat gat      724
Lys Glu Glu Glu Lys Leu Gly Lys Leu Gln Tyr Ser Leu Asp Tyr Asp
        140                 145                 150

ttc caa aat aac cag ctg ctg gta ggg atc att cag gct gcc gaa ctg      772
Phe Gln Asn Asn Gln Leu Leu Val Gly Ile Ile Gln Ala Ala Glu Leu
    155                 160                 165

ccc gcc ttg gac atg ggg ggc aca tct gat cct tac gtg aaa gtg ttt      820
Pro Ala Leu Asp Met Gly Gly Thr Ser Asp Pro Tyr Val Lys Val Phe
170                 175                 180                 185

ctg cta cct gat aag aag aag aaa ttt gag aca aaa gtc cac cga aaa      868
Leu Leu Pro Asp Lys Lys Lys Lys Phe Glu Thr Lys Val His Arg Lys
                190                 195                 200

acc ctt aat cct gtc ttc aat gag caa ttt act ttc aag gta cca tac      916
Thr Leu Asn Pro Val Phe Asn Glu Gln Phe Thr Phe Lys Val Pro Tyr
            205                 210                 215

tcg gaa ttg ggt ggc aaa acc cta gtg atg gct gta tat gat ttt gat      964
Ser Glu Leu Gly Gly Lys Thr Leu Val Met Ala Val Tyr Asp Phe Asp
        220                 225                 230

cgt ttc tct aag cat gac atc att gga gaa ttt aaa gtc cct atg aac     1012
Arg Phe Ser Lys His Asp Ile Ile Gly Glu Phe Lys Val Pro Met Asn
    235                 240                 245

aca gtg gat ttt ggc cat gta act gag gaa tgg cgt gac ctg caa agt     1060
Thr Val Asp Phe Gly His Val Thr Glu Glu Trp Arg Asp Leu Gln Ser
250                 255                 260                 265

gct gag aag gaa gag caa gag aaa ttg ggt gat atc tgc ttc tcc ctt     1108
Ala Glu Lys Glu Glu Gln Glu Lys Leu Gly Asp Ile Cys Phe Ser Leu
                270                 275                 280

cgc tac gta cct act gct ggt aag ctg act gtt gtc att ctg gag gca     1156
Arg Tyr Val Pro Thr Ala Gly Lys Leu Thr Val Val Ile Leu Glu Ala
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Lys Ile His Leu Met Gln Asn Gly Lys Arg Leu Lys Lys Lys Lys Thr
    315                 320                 325

aca att aaa aag aac aca ctt aac ccc tac tac aat gag tca ttc agc     1300
Thr Ile Lys Lys Asn Thr Leu Asn Pro Tyr Tyr Asn Glu Ser Phe Ser
330                 335                 340                 345

ttt gaa gta cct ttt gaa caa atc cag aaa gtg cag gtg gtg gta act     1348
Phe Glu Val Pro Phe Glu Gln Ile Gln Lys Val Gln Val Val Val Thr
                350                 355                 360

gtt ttg gac tat gac aag att ggc aag aac gat gcc atc ggc aaa gtc     1396
Val Leu Asp Tyr Asp Lys Ile Gly Lys Asn Asp Ala Ile Gly Lys Val
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ttt gtg ggc tac aac agc acc ggc gcg gag ctg cga cac tgg tca gac     1444
Phe Val Gly Tyr Asn Ser Thr Gly Ala Glu Leu Arg His Trp Ser Asp
        380                 385                 390

atg ctg gcc aac ccc agg cga cct att gcc cag tgg cac acc ctg cag     1492
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Val Glu Glu Glu Val Asp Ala Met Leu Ala Val Lys Lys  *
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Ala Ile Val Ala Val Leu Leu Val Leu Thr Cys Cys Phe Cys Ile Cys
65                  70                  75                  80
Lys Lys Cys Leu Phe Lys Lys Lys Asn Lys Lys Lys Gly Lys Glu Lys
                85                  90                  95
Gly Gly Lys Asn Ala Ile Asn Met Lys Asp Val Lys Asp Leu Gly Lys
            100                 105                 110
Thr Met Lys Asp Gln Ala Leu Lys Asp Asp Asp Ala Glu Thr Gly Leu
        115                 120                 125
Thr Asp Gly Glu Glu Lys Glu Glu Pro Lys Glu Glu Glu Lys Leu Gly
    130                 135                 140
Lys Leu Gln Tyr Ser Leu Asp Tyr Asp Phe Gln Asn Asn Gln Leu Leu
145                 150                 155                 160
Val Gly Ile Ile Gln Ala Ala Glu Leu Pro Ala Leu Asp Met Gly Gly
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Thr Ser Asp Pro Tyr Val Lys Val Phe Leu Leu Pro Asp Lys Lys Lys
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Lys Phe Glu Thr Lys Val His Arg Lys Thr Leu Asn Pro Val Phe Asn
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Glu Gln Phe Thr Phe Lys Val Pro Tyr Ser Glu Leu Gly Gly Lys Thr
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Leu Val Met Ala Val Tyr Asp Phe Asp Arg Phe Ser Lys His Asp Ile
225                 230                 235                 240
Ile Gly Glu Phe Lys Val Pro Met Asn Thr Val Asp Phe Gly His Val
                245                 250                 255
Thr Glu Glu Trp Arg Asp Leu Gln Ser Ala Glu Lys Glu Glu Gln Glu
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Lys Leu Gly Asp Ile Cys Phe Ser Leu Arg Tyr Val Pro Thr Ala Gly
        275                 280                 285
Lys Leu Thr Val Val Ile Leu Glu A
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